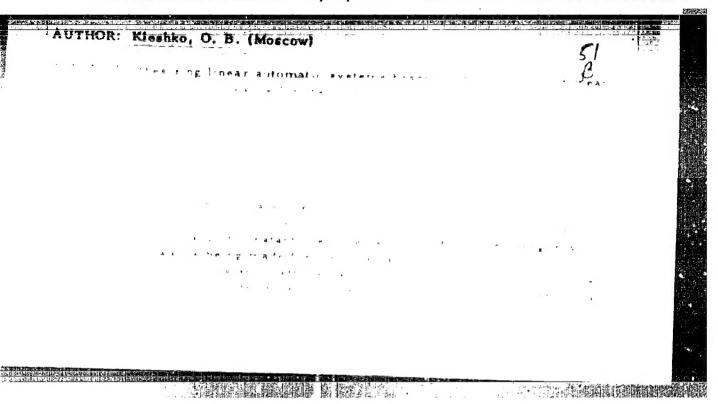
Automatic control of strip thickness

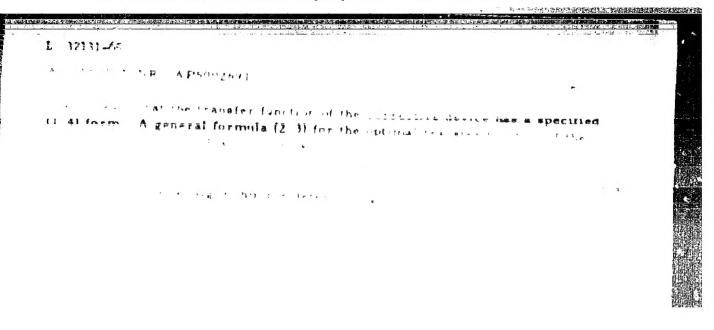
S/118/62/000/012/001/002 D201/D308

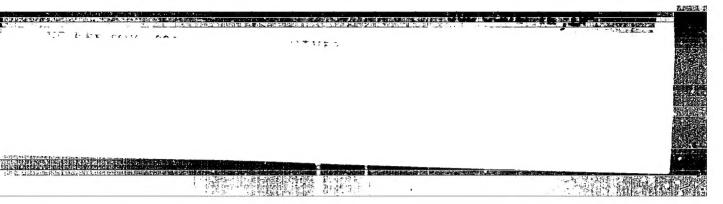
at the 6th, 7th, 8th and 9th cages, which keep the gaps constant during the rolling process. The Simms-Golovin equation makes it possible to find the gap indirectly from measurements of the pressure of the roller clamp screw, and the deformation of the cage. The strip clamp screw is measured by a loop-tension pickup. The position of the (DR-5138), in the form of a rheochord, with a remotely controlled wiper. It is envisaged that tension gauges developed by VNINETALISH TSNIICHM, be used for the measurements of metal pressure against the strip thickness continuously. The gap control device has several electronic circuits, the most important of which are the electronic measuring amplifier, pressure storage circuit, adder and gap controler amplifier. A model under test proved to be reliable. The economy in metal could be 4.5 million roubles per year. There are 8

HA W.

Card 2/2







TSVETKOV, Vladimir Petrovich, dots.; KLESHOV, Boris Aleksandrovich; FOMKIN, Nikolay Yefimovich, kand. tekhn. nauk; ANOROV, Sorgey Nikolayevich, st. nauchn. sotr.; PERFILOV, I.F., insh., red.

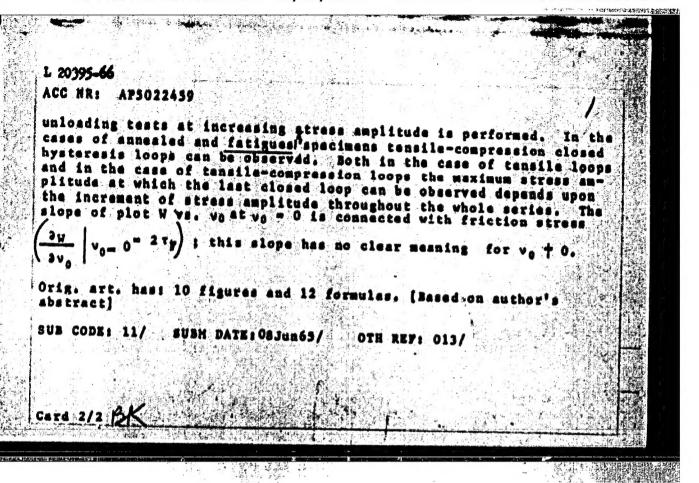
[Pressure-water conduits of reinforced concrete pipes; practices of the "Kalininspetsstroi" Trust and the All-Union Research Institute for Water Supply, Sewer Systems, Hydraulic Engineering Structures, and Hydrogeological Engineering (VODGEO)] Napornyi vodovod iz zheleznodorozhnykh trub; opyt tresta "Kalininspetsstroi" i VHII vodo-snabzheniia, kanalizatsii, gidrotekhnicheskikh sooruzhenii i inzhenernoi gidrogeologii (VODGEO). Moskva, Stroiizdat, 1964. 26 p. (MIRA 17:12)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

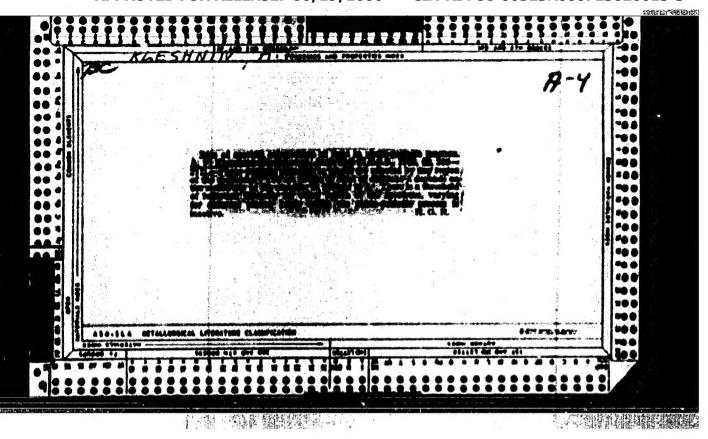
2. Zaveduyushchiy kafedroy Kalininskogo torfyanogo instituta (for TSvetkov). 3. Glavnyy inshener tresta "Kalininspetsstroy" (for Kleshov). 4. Vsesoyusnyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh soruzheniy i inzhenernoy gidrogeologii (for Anorov).

DIP(+)/DIP(+)/1/DIP(1) LJP(o) JD ACC NR: AP5022452 100 RCE Er GE(0030/65/011/001/ AUTHOR: Lukes, P.; Kleenil, H. Institute of Hetaliurgy, Czechoslovak Academy of Sciences ORG: Brno TITLE: Hysteresis loops in the microstrain region SOURCE: Physica status solidi, v. 11, no. 1, 1965, 127-137 TUPIC TACS: metal analysis, hysteresis loop, mechanical str ABSTRACT: It was shown that the condition for a loading-unloading test to form a closed hysteresis loop is the existence of a non-ser effective stress acting against the applied stress at the beginning of the loading curve. After prior tensile deformation tensile close hysteresis loops can be observed. On annealed or fatigued speciment where the average effective stress is zero, tensile closed loops can be observed at the sensitivity used only when a series of loading-Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3"



L 35378-66 ACC NR. AP6026850 SOURCE CODE: CZ/0060/66/000/002/0078/0080 AUTHOR: Klesnil, Systopluk (Lieutenant colonel; Doctor of medicine); Hubka, Stanisler Gubka, S. (Lieutenant colonel; Doctor); Brackoupil, Oldrich (Major; Doctor of medicine CRG: Military Hospital, Olomouc (Vojenska nemocnice) TITLE: Medical evacuation of soldiers suffering from spinal disorders under field conditions This paper was presented at the Armed Forces Conference held at the Military Hospital in Olomous on 16 October 1964/ SOURCE: Vojenske zdravotnicke listy, no. 2, 1966, 78-80 TOPIC TAGS: army medicine, bone disease, therapeutics In a military ambulatory hospital out of 300 patients ABSTRACT: treated in 1964, 41% suffered from spinal disorders. As during periods of hostilities the load on a soldier would be increased, the authors assume that the number of soldiers needing medical help would increase, and therefore a study of the means by which they could be sent to military hospitals was made. All cases of tumors, or chronic inflammation of spinal discs should be sent to military hospitals. Chiropractic treatment in field hospitals should be made available. Details of this treatment are discussed. [JPRS: 36.834] SUB CODE: 06 / SUBM DATE: Cord 1/1 UDC: 356.33: 616.711-06-06



"A Contribution to the Study of Heat Resistance of the Leaves of Cotton Grown on Saline "oils," Dokl. AN SSSR, 47, No.8, 1945

Timiryasev Inst. of Plant Physiol., AS USSR

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3"

KLESHNIN, A. F.

"Role of Spectre of Visible Light in Photoperiodic and Pormative Processes at Various Developmental Phases," Dokl. AN SSSR, 52, No.9, 1946

KLESHNIN, A. F.

"Contribution to the Question of the Significance of the Spectral Composition of Light in Growth Processes," Dokl. AN SSSR, 53, No.2, 1946.

KLESHNIN, A. F.

USSR/Medicine - Plants - Development Medicine - Light, Effects

Jul 47

"Luminescent Tubes as Sources of Radiation for Light Culture of Plants," N. A. Maksimov, Academician; A. F. Kleshnin, Inst Plant Physiol imeni K. A. Timiryazev, Acad Sci USSR, App

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 2

Tests conducted to determine more exactly effects of artificial light on plant growth, using various types of bulbs. Determined fluorescent lamps to be more ecohomical than filaments lamps, and that they brought about better development of plant. Hany plants develop under fluorescent lamps in same manner as in short-day regions. Submitted,

PA 60T45

Uses/Medicine - Plant Physiology Mar/Apr 49
Medicine - Lighting, Effects

"Fluorescent Lamps as a Source of Radiation in 'Photoponice' (Plant Culture Using Light)," A. F. Kleemin, Inst of Plant Physiol imeni K. A. Timiryasev, Acad Sci USSR, 8 pp

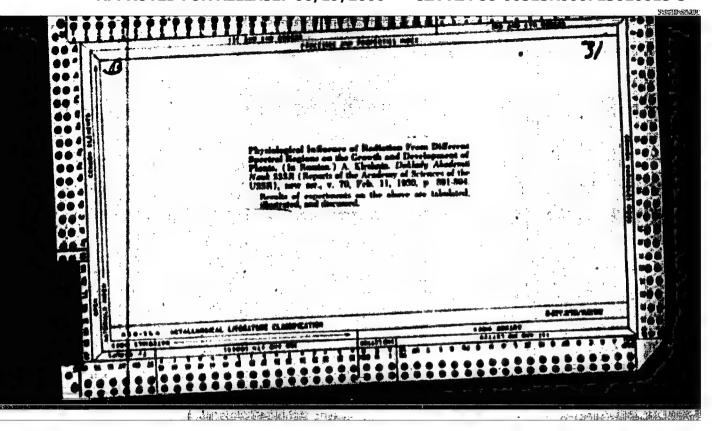
"Is AK-Nauk SSSR, Ser Fiz" Vol XIII, No 2

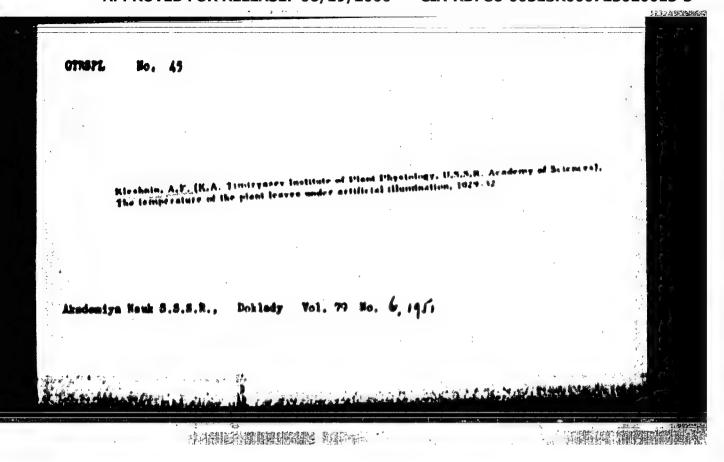
Experiments conducted by Inst of Plant Physiol in 1947 - 48 on relative effectiveness of fluorescent and incandescent lamps on the growth of Yadishee, lettuce, peas, tomatoes, and other plants showed that fluorescent lamps have real possibilities as a radiation source in photoponics.

12/19766

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3"

				* 4 3.39,4	· · · · · · · · · · · · · · · · · · ·
KLESHNIN, A., Y.,			Pa.	15078	
	sufficiently most active orange-red r sults. Subm	Investigated on process o roots and bu mation occur logical radii	Plants, Laseni K. "Dok Ak	Proble	
·	ently intly submit	igated e	Man > Be	Mology	
:	tree by	pated effect se of forms d bulbs. To cours in al radiation in	88	£ 38	
	of H or	n E man	of Physic Kleshnin, Liryazev, 1538" Vol I	Porma:	
	Orange-red develop o cludes two y Acad N.		F - 5	14	
	₩ 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	Inst of lead Sci	Actio	
	y under	rper Jo smorfer peaced fita stu	Bad US	0	
: w .	9477	For	7 33 3	21 Variou	
<b>5</b>	consider action o test re	- 0 4 4 6	Physical 3 pp	a Juli	
<b>§</b>	4 4 8 7	ond is	25	5	
			1 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	A STATE OF THE STA	
			: 0.00000000000000000000000000000000000		
	和"陈州"的"是一个一个				S. C.





- 1. KLESHNIN, A. F.
- 2. USSR (600)
- 4. Botanical Apparatus
- 7. Growing plants with the aid of fluorescent lamps. E st, v shkole No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, Pebruary 1953, Unclassified.

- 1. KLESKOTY, A. Y.
- 2. USSR (600)
- 4. Plants, Effect of Light On
- 7. Cultivation of plants under artificial light, Priroda 41 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

### KLESENIN, A.F.

Theory and practice of growing plants under artificial light.

Trudy Inst. fisiol. rast. 8 no.1:131-163 '53. (MIRA 6:12)

1. Institut fisiologii rasteniy im. K.A.Timiryaseva Akademii nauk 888R. (Plahts, Effect of light on)

## KLESHNIN, A.F.

Problems in measuring radiant energy for physiological purposes. Trudy Inst. fisiol. rast. 8 no.1:219-228 153. (MLRA 6:12)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva Akademii mauk SSSR. (Solar radiation) (Botany--Physiology)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3"

· 不可可能 不一一等相違的性數是 海通機能

STROGOMOV, B.P.; KLMSHEIF, A.F.; IVANITSKAYA, Ye.F.; OPARIN, A.I., akademik.

Temperature of cotton plant leaves at various types of soil salt accumulation and under the conditions of various water supply. Dokl.AN SSSE 93 no.1:179-182 N '53. (MERA 6:10)

1. Akademiya nank SSSR (for Oparin). 2. Institut fiziologii rasteniy im. K.A.Timiryaseva Akademii nank SSSR (for Strogonov, Eleshnin and Ivanitskaya). (Cotton)

ELEBRUIN, A.F.; EUREANOV, A.L., akademik, otvetstvennyy redaktor; MICHI-PUROVICH, A.A., professor, otvetstvennyy redaktor; SAMTOIN, Yu.A., redaktor; ZMLENKOVA, Ye.V., tekhnicheskiy redaktor.

[Plants and light; theory and practice of plant growing in artificial light] Eastenie i evet; teoriia i praktika svetokulitury. Noskva, ind-vo Akad. neuk SSSR, 1954. 456 p. (NURA 7:12) (Plants, Effect of light on)

HIRSHNIN, A.F.; STRONOMOW, B.P.; SHUL'GIN, 1.A.

How method for determining transpiration. Fisiol.rast. 1 no.2:
188-192 N-D '54. (MIRA 8:10)

1. Institut fisiologii rasteniy ineni K.A.Timiryaseva Akademii
namk SSSR, Mornow (Flants—Transpiration)

KURSAHOV, A.L., akademik; KLESHVIV, A.F., kandidat biologicheskikh

Marked atoms in the study of plant life. Est. v shkole no.4:12-16 J1-Ag '54. (NIRA 7:8)

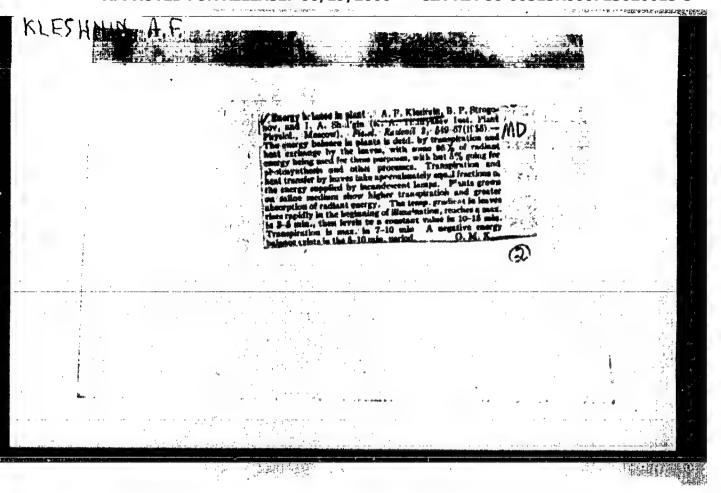
1. Institut fiziologii rasteniy imeni K.A.Timiryazeva. (Botany--Physiology) (Radioactive tracers)

RIESHNIN, Aleksey Fedorovich; SHIE, M.M., redaktor; DMITRITEVA, R.V., tekhnicheskiy redaktor

[Role of light in plant life] Hol' sveta v shisni rastenii. Moskva, Isd-vo "Enanie", 1955. 30 p. (Vessoiusnoe obshobestvo po rasprostraneniiu politicheskikh i nauchnyth snanii. Ser. 3, no. 29)
(Plants, Rifect of light on)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020013-3



USSR/F Physiology - Growth and Development.

H-h

Abs Jour

1 Referat Zhur - Biol. No 16, 25 Aug 1957, 68970

Author Title 1 Klechning A.F.
1 The Significance of the Spectral Composition of Physiological Radiations on Plant Growth and Development.

Orig Pub

Tre In-ta finiologiy resteniy, AN 885R, 1955, 10, 17-27

Abstract

Card 1/2

KLESHNIN, A.P.; OSINOVA, O.P.; TIHOPETEVA, I.V.

Pignent, protein, and carbohydrate content of lettuce plants under artificial illumination. Trudy Inst.fiziol.rast. 10:60-63 155.

(MIRA 8:9)

1. Institut fiziologii rasteniy im. K.A. Timiryaseva Akademii namk SSSR. (Lettuce) (Plants, Effect of light on)

# KLESHNIN, A.F.

Use of artificial illumination in ornamental plant cultivation, Trody Inst.fiziol.rast. 10:122-128 '55. (MIRA 8:9)

1. Institut fiziologii rasteniy im. K.A. Timiryaseva Akademii namk SSSR, (Plants, Ornamental) (Plants, Effect of light om)

SHAKHOV, Aleksandr Aleksandrovich; RATER, Ye.I., doktor biologicheskikh nauk, otvetstvennyy redaktor; ELESHNIN, A.F., redaktor indatel'stva; SHEVCHENKO, G.N., tekhnicheskiy redaktor

[Salt resistance of plants] Soleustoichivost' rastenii. Moskva, Isdvo Akademii nauk SSSR, 1956. 550 p. (MLRA 9:11) (Plants, Effect of ealt on)

KIRSHNIN, A.F., kandidat biologicheskikh nauk.

Equipment for the irradiation of plants, Svetotekhnika 2 no.4: 14-17 J1 '56. (MLRA 9:10)

1. Institut fiziologii rasteniy Akademii nauk 855E. (Plants, Effect of radiation on) (Electric lamps)

# \*\*TLESHNIE, A.F. "Fortilizing plants with carbon diexide". T.A.Chesnekev, A.M.Stepaneva, Reviewed by A.F.Fleshnin. Fisiel.rast. 3 ne.4: 388 Jl-Ag '56. (MEA 9:9) (Carbon diexide) (Fertilizers and mammres) (Chesnekev, V.A.) (Stepaneva, A.M.)

Kleshmin, A.F.

USSR/Plant Physiology - Water Regimen.

ī.

Abs Jour

: Ref Zhur - Biol., No 18, 1958, 82018

Author

Inst

: Kleshnin, A.Fi, Shul'gin, I.A.
: - Inot. Clant Physiology am K.A. Timinyazav AS USSR:
: The Intensity of Transpiration Under artificial Light.

Title

Orig Pub

: Fiziol. rasteniy, 1957, 4, No 6, 548-553

Abstract

: Plant transpiration under strong (35000-1.000.000 erg/ on sec) illumination by incandescent lamps attained its maximum during the first 15 min and then diminished and became stable. It was strongest in the Solanum bycopersicum, Malus communis, Acer platanoides. It was weaker for the Cucumis sativus. It was smallest for Calla ethiopica, Ilex pyramidalis. The transpiration of 20 of 23 studied species is rigorously proportional to the illumination. The maximum transpiration intensity (547 g/m2-hour) is noted in the Populus tresula in a hot-house and at 19-260 and under integral lamp rediction of

Card 1/2

ABBROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, 82018

1.000.000 erg/cm<sup>2</sup>. sed. -- L.I. Krasovskiy.

Card 2/2

KLESHNIN, A.F., SHUL'GIN, I.A.

Leaf temperature of plants in artificial light. Biofizika 3 no.4:438-446

1. Institut fiziologii rasteniy AN SSSR, Moskva. (PLANTS, EFFECT OF LIGHT ON)

SHUL'GIN, I.A.; KLESHNIN, A.F.; VERBOLOVA, M.I.

Photoelectric determination of the optical properties of plant leaves. Fisiol.rast. 5 no.5:473-476 8-0 '58. (MIRA 11:11)

1. Institut fisiologii rasteniy imeni K.A. Timiryaseva AN SSSR, Moskva i Kafedra darvinizma Hoskovskogo gosudarstvennogo universiteta, Hoskva. (Leaves--Optical properties) (Photoelectric measurements)

KLESHNIN, A.F.; SHUL'GIN, I.A.; BOKAVAYA, N.N.

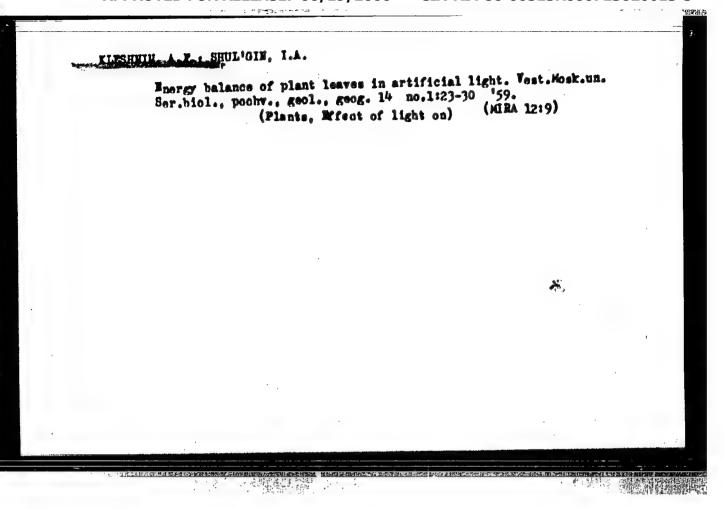
Plant physiology: Heat capacity and bound water of plants. Dokl.AN 888R 122 no.5:940-943 0 58. (MIRA 11:11)

1. Institut fiziologii rasteniy imeni K.A. Timirayazeva AN SSSR. Predstavleno akademikom A.L. Kursanovym. (Heat capacity) (Plants--Chemical analysis) (Vater)

SHUL'GIN, I.A.; KLESHNIN, A.F.; VERBOLOVA, M.I.

Role of anthocyanins in the absorption of radiation energy by plant leaves. Nauch.dokl.vys.shkoly; biol.nauki no.2:166-174 (KIRA 12:6)

1. Rekomendovana kafedroy darvinisma gosudarstvennogo universiteta im. M.V.Lomonosova. (Anthocyanin) (Solar radiation) (Leaves)



17(1) AUTEOR3:

Kleshnin, A. L., Shul'gin, I. A.

507/20-125-5-56/61

TITLE:

On the Optical Properties of Plant Leaves (Ob opticheskikh

svoystvakh list'yev rasteniy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 5, pp 1158-1161 (USSR)

ABSTRACT:

The main part of the radiation energy which reaches the leaves is absorbed by them. It is used for all physiological processes and the processes growth and development related to them. Although since Sachs (Ref 1, 1860) many papers have been published on the topic mentioned in the title, the number of modern papers is very low (Refs 5-9). Therefore it is necessary to investigate the topic mentioned systematically. The rules governing the distribution of the radiation energy absorption within the physiological range of the spectrum have to be determined for most of the plant species under natural conditions. For this purpose the authors investigated approximately 80 species from the central sone of the European part of the USSR according to the earlier published method (Ref 1). These species were planted in fields: sunflower (Helianthus annuus), potato (Solamum tuberosum), et al., altogether 6 species; vegetables: tomato (Solamum lycopersicum), pea (Pisum sativum),

Card 1/3

On the Optical Properties of Plant Leaves

507/20-125-5-56/61

oucumber (Cucumis sativus), black radish (Cohlearia armorasia) et al, altogether 10 species; vegetables with a high water content in the leaves: onion (Allium cepa), lettuce (Lactuca sativa), common sorrel (Rumex domestious), et al. - 5 species; ornamental plants: Perilla nankinensis, Phlox paniculata, peony (Peonia officinalis), Cineraria maritima, et al. - 10 species; wild herbaceous plants: Rubus saxalitis, violet (Viola tricolor), stramberry (Pragaria vesca) et al .- 10 species; trees: white poplar (Populus alba), birch (Betula verrucosa), lime-tree (Tilia vulgaris), hazel tree (Corylus avellana), common (British) oak (Quercus robur) et al .-15 species; aquatic plants - hygro- and hydrophytes: Caltha palustria Menyanthes trifoliata, Thypha latifolia, Potamogeton praelongus, et al .- 15 species, which differ from one another by the chlorophyll content in the leaves and have different stands. It was found that the reflection, permeability, and absorption of radiation energy in the individual spectral ranges are rather similar in the major part of these plant species imspite of their different systematic and ecological classification and different stands. This was confirmed by the spectral curves (Fig 1). From these results the conclusion may be drawn that an optical system developed in the course of evolution of the plants: leave - plastides - pigments which got

Card 2/3

On the Optical Properties of Plant Leaves

307/20-125-5-56/61

accustomed to the optimum absorption of radiation energy within a rather narrow range, i. e. irrespective of the species characteristics of the plants. There are 3 figures and 11 references, 3 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Mosbow State University imeni M. V. Lomonosov), Institut fiziologii rastemiy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni K. A. Timiryasev of the Aesdemy of Sciences, USSR)

PRESENTED:

January 10, 1959, by A. L. Eursanov, Academician

SUBMITTED:

January 9, 1959

Card 3/3

507/20-125-6-55/61

17(1) AUTHORS: Shul'gin, I. A., Kleshnin, A. P.

TITLE:

On the Correlation Between the Optical Properties and the Chlorophyll Content in Plant Leaves (O korrelyatsii mezhdu opticheskimi svoystvami i soderzhaniyem khlorofilla v listiyakh

rasteniy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1371-1373

(USSR)

ABSTRACT:

The pigment content varies considerably in the plant leaves (Ref 1). However, there are no data on the effects of different chlorophyll contents on the optical properties of leaves, in particular on the absorption of radiation energy. This effect was to be determined in the investigation under review. For this purpose, plants of the middle zone of the European USSR from natural growth conditions were used, both light-loving from natural growth conditions were used, both light-loving and shadow-loving plants being employed: herbs, woody plants, ornamentals, crops, and others, a total of 80 species. The optical properties were determined by the method indicated in reference 2. Figures 1-3 show the results. From them it may be concluded that in most of the above-mentioned plants (mainly

Card 1/2

507/20-125-6-55/61

On the Correlation Between the Optical Properties and the Chlorophyll Content in Plant Leaves

mesophytes) the optical properties - transmission, reflexion, and absorption - are independent of the chlorophyll content.

Chlorophyll is mostly present in excess quantities.

There are 3 figures and 2 Soviet references.

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova ASSOCIATION:

(Moscow State University imeni M. V. Lomonosov) Institut fizic-logii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR

(Institute of Plant Physiology imeni K. A. Timiryazev of the

Academy of Sciences of the USSR)

January 10, 1959, by A. L. Kursanov, Academician PRESENTED:

January 9, 1959 SUBMITTED:

Card 2/2

KLESHNIN, A. F., Doc Biol Sci -- (diss) "Physiological bases for the light cultivation of plants." Leningrad, 1960. 32 pp with graphs; (Acadley of Sciences USSR, Botannical Inst im V. L. Komarov); 300 copies; emy of Sciences ussR, Botannical Inst im V. L. Komarov); (KL, 22-60, 134) free; list of author's work at end of text (36 entries); (KL, 22-60, 134)

SHULIGIE, I.A.; KLISHEIE, A.F.; VERBOLOVA, H.I.

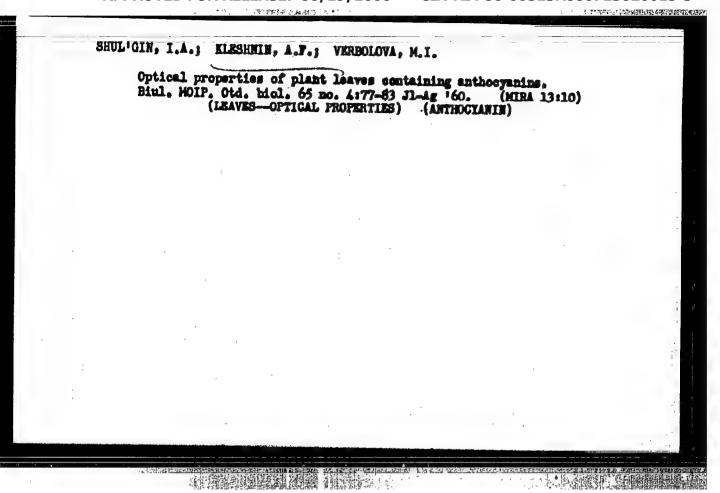
Relation between optical properties and structural characters in plant leaves. Eauch. dokl. vys. shkoly; biol. nauki no.1:132-135 (MIRA 13:2)

1.Rekomendovana laboratoriyey biologii rasvitiya rasteniy Koskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova i Institutom fiziologii rasteniy AN SSSR. (Leaves-Optical properties)

SHUL'GIN, I.A.; ELESHEIN, A.F.; EMPROLOVA, M.I.; PODDL'HY, V.Z.

Studying optical properties of leaves in woody plants with the SF-4 spectrophotometer. Fiziol.rast. 7 no.3:300-308 (MIRA 13:6)

1. E.A. Timiryanev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow. (Leaves-Optical properties) (Spectrophotometry)



SHUL'OIN, 1.A.; KHAZANOV, V.S.; KLESHNIN, A.F.

Mature of the reflection of radiant energy as related to the structure of the leaf.. Dokl.AM SSSR 134 no.2:471-474 8 (MIRA 13:9)

7421

囊標

1. Institut fixiologii rasteniy im.K.A.Timiryaseva AN SSSR i Vsesoyusmy nauchno-issledovatel skiy svetotekhnicheskiy insitut. Predstavleno akad. A.L.Kursanovym. (Leaves--Optical properties)

# SHUL'GIN, I.A., KLESHNIN, A.F., PODOL'NYI, V.Z.

Optical properties of plant leaves in the ultraviolet region of radiation. Fisiol. rast. 7 no.2:141-144 '60. (HIRA 14:5)

l. Institut fisiologii rasteniy imeni K. A. Timiryaseva Akademii nauk SSSR, Moskva i Biologicheskiy fakul'tet Moskovskogo gosudar-stvennogo universiteta imeni M.V. Lomonosova.

(Leaves-Optical properties)

(Ultraviolet rays)

# KLESHHIN, A.P., SHUL'GIN, I.A., YERBOLOVA, M.I.

HEADON AND AND ASSESSED THE REPORT OF THE PARTY OF THE PA

Optical properties of plant leaves. Bot, zhur. 45 no.4:492-506 Ap \*60. (MIRA 14:5)

1. Institut fisiologii rasteniy im. K. A. Timiryaseva AN SSSR i Laboratoriya biologii rasvitiya rasteniy Moskovskogo gosudarstvennogo universiteta. (Leaves-Optical properties)

BHUL: GIH, I.N.; KHAZANOV, V.S.; KLESHNIN, A.P.; RZHANOVA, T.B.

Scattering of radiant energy by plant leaves. Biofisika 6 no.6:734-739 161. (MIRA 15:1)

1. Institut fisiologii rasteniy imeni K.A.Timiryaseva, Moskva 1 Vsesoyusnyy nsuchno-issledovatel skiy svetotekhnicheskiy institut. (FLANT PHYSIOLOGY) (RADIATION\_SCATTERING)

KLEEHEIN, A.F. [Kliashmin, A.F.]: FROMOREWOO, L.S. [Mindarenka, L.A.]

Flootid apparatus of a cor test leaves in artificial light.

Vestel AH BOSH. Ger. bital. nav. n..4157-34 162.

(MIRA 17:6)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3"

TOTAL CONTRACTOR OF THE PARTY O

SHUL'GIN, Igor' Aleksandrovich; KUPERMAN, F.M., prof., otv. red.; KLESHIIN, A.F., prof., otv.red.; DANIL'CHENKO, O.P., red.; UZONGITEVA, G.I., tekhn. red.

[Morphological adaptations of plants to light; optical properties of leaves. A lecture from the course "Biology of plant development"] Morfofisiologicheskie prisposobleniis rastenii k svetu; opticheskie svoistva list'ev. Lektsiia is kursa "Biologiia rasvitiia rastenii." Moskva, Izd-vo Mosk. univ. 1963. 72 p. (MIRA 16:9) (Leaves-Optical properties)

ROZHDESTVENSKIY, V.I.; CHUCHKIN, V.G.; KLESHNIN, A.F.

Automatic maintenance of a stationary CO<sub>2</sub> concentration in photosynthetic chambers. Fiziol.rast. 12 no.1:178-181 Ja-F (HIRA 18:3)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Hoskva.

TLESHHIE, V., insh.; PEHEIEL'SKIY, V. [Perediel's'kyi, V. ], insh.

Thermic pieroing of heles. Enan. ta prateia no.4:12 Ap '59.

(Bering)

(Bering)

MLESHNIN, V., insh.; PEREDEL'SKIY, V. [Perediel'skyi, V.], insh.

The use of sine gases. Znan.ta pratein no.6:11 Je '59.

(Mine gases)

VOMKIN, N. Ye., inshes Kirshov, B.A.

Laying an asbestos-coment pipeline with a new type of butt joint.

Vod. i san. takh. no.1:31 Ja '63. (MIRA 16:2)

(Pipe, Asbestos-coment)

(Pipe joints)

KLESHOV, B.A., inzh.

Delivery conduits from asbestos-cement pipes with new joints. Vod. i san. tekh. no.11:7-9 N 165. (MIRA 18:12)

BARRYAK, A.Sh., kand. tekhn. muk; GMELVTHEV, F.K., inzh.;
KIESHOV, B.A., inzh.

Piltration characteristics of porcus concrete drain pipes.
Trarap. stroi. 15 no.11:45-46 N \*65. (MIRA 18:11)

"一个四种代码"的一个全国的影响和影响

KLESKEN, B.

"Measurement of output with a electro-dynamic wattmeter." p. 77.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied). Bratislava, Gsechoslovakia, Vol. 7, No. 2, 1955.

Monthly list of East European Accessions (REAI), IC, Vol. 8, No. 8, August 1959. Uncls.

KLESKEN, B.

Measuring idle capacity.

TECHNICKA PRACA. Csechoslovakia, Vol. 7, No.4, 1955

Monthly List of East Buropean Accessions (EEAI), LC, Vol. 8, No. 9, September 1959

Klesken, B.

Simple low-frequency generator. p. 371
TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 8, Aug. 1955

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

門 智 学 计记记的邮报证据制度

KFZHIVSKIY, B. [Krivsky, B.]; KLESKEN: I. [Klesken, J.]; NEYMAYYER, V. [Neumajer, V.]; GRADETSKIY, Z. [Hradecky, Z.]; DEGTYAREV, P. V. [translator]; PARSHINA, Ye.A. [translator]; PETRENKO, V. Ya., general-leytenant, red.; ARTEMOV, A.P., red.; MUKHANOVA, M.D., tekhn. red.

[Night fighting]Nochmoi boi. Pod red. Petrenko V.IA. Hoskva, Voenizdat, 1963. 170 p. Abridged translation from the Csech. (MIRA 16:2)

KIESKO, O.B. [Kleshko, O.B.]

Automatic regulation of band thickness in the reversible mills for cold lamination. Analele metalurgie 16 no.4:166-177 O-D '62.

#### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020013-3

ACC NR. AP6035092

SOURCE CODE: CZ/0086/66/000/019/0024/0026

AUTHOR: Klesl, E.

ORG: none

TITLE: The secret program of the "Kosmos" satellites

SOURCE: Letectvi-kosmonautika, no. 19, 1966, 24-26

TOPIC TAGS: manned space flight, unmanned space flight, space program, space research facility, orbit space flight, spacecraft, artificial satellite, scientific satellite, satellite trajectory, space hazard/Kosmos satellite, Molniya satellite, Zond probe

ABSTRACT: The author analyzes the "Kosmos" satellite program, based on "meager" information from the USSR, and on Western sources. Certain similarities of the apogees of the various Kosmos satellites lead him to believe that there are four different types, and that the Molniya satellite and the unmanned Voskhod belong to the same program. He quotes Western observers as dividing the Kosmos series into two groups: 1) those launched at an angle of 49° and 56° (estimated to be 1.5 m long and 1 m in diameter and weighing 400 to 800 kg) and believed to be Cord 1/2

ACC NR: AP6035092

launched from Kapustin yar cosmodrome; 2) those launched at 51° and 65°. Most of these returned after 8 days, some landed outside of the USSR; their radio signal was similar to those of spaceships before Gagarin's flight and they are presumed to have been launched from the Baykonur, Karsakpay and Turatam cosmodromes. The author credits Dr. F. J. Krieger (Rand Corporation) with exceptional knowledge of the program, and he detects indirect proof that the Kosmos satellites are, indeed unmanned Vostok-type spaceships in a quoted report (August 1965) from Moscow, stating that the Kosmos series are significant not only for scientific purposes but also for manned spaceflights, and that they helped to solve problems of reentry, radiation, and nuclear blasts in space. He agrees with Dr. Krieger in that almost all space satellites—American or Soviet—are para-military vehicles. The author also deals with speculations surrounding Kosmos 50 (which shattered into 97 pieces) and Kosmos 57 (which shattered into 200 pieces). According to one version it was the result of an unsuccessful docking attempt, while the other version states that the satellites were hit by an antisatellite weapon, and the third version, that they were destroyed for fear that they would land on non-Soviet territory. He speculates that these satellites may serve antisatellite defense research, and believes that the Zond program ties in with the Kosmos series. Orig. art. has: 3 figures and 4 tables.

SUB CODE: 22/SUBM DATE: none/

Card 12/2

2(10); 13(1)

PHASE I BOOK EXPLOITATION

CZECH/2468

Klesl, Emil

Raketové zbraně (Rocket Wespons) Praha, Maše vojsko, 1958. 273 p. (Series: Knižnice moderní vojenské techniky, sv. 1) 8,000 ecpies printed.

Resp. Eds.: Armest Burget, Captain, and Karel Zeleny.

PURPOSE: The book is intended for the general reader.

COVERAGE: The book surveys the history of rocket development and describes the main types of rockets of the past and present. Specifications and diagrams or photographs are given. Some of the detail on Soviet-made rockets may be of interest. No personalities are mentioned. There ho references: 11 Greah, 14 Soviet, 8 German, and 7 English.

TABLE OF CORTRETS:

Introduction

Jet Engines

Card 1/5'

5

7

· National Control

## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3

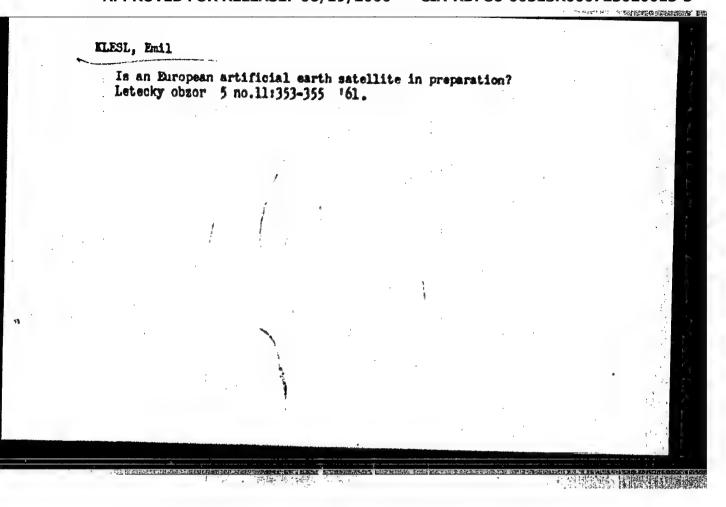
oeket Wespons	CZBCH/2468	
Principles of jet propulsion		
age and not	<b>7</b> 8	
Properties of jet engines	. 8	
Jet engines using solid fuel [manallanta]	9	
Jet engines using liquid fuel	9 11 12	
ocket-propelled Wespons		
Missiles	· 17	
Jet eirereft	18	
Rocket aircraft	25	
Pilotless aircraft [missile-shaped aircraft]	25 24 26	
ildense Systems		
Howing guidence [self-guided systems]	27	
Guided systems	27 28 30	
story of the Rocket		
Rockets using solid fuel	36	
Modern rocket technology	36 36 Na	
rd 2/5	<b>11</b>	
4 7		
	•	

### "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3

		· · · · · · · · · · · · · · · · · · ·
Rocket Wespons	CZBCE/2468	5) 4
	V22001/ 2400	
K.Ye. Tsiolkovskiy	43	
Rocket in World War II		
Rocket wespons used by army artillery	48	
Rockets for armered and tank units	48	
Rocket wespons on naval vessels	59	1
Hand rocket arms	61	
Rocket wespons for antiaircraft artillery	59 61 63 66	. 7
Airborne rocket weapons	66	
Rocket bombs and guided bombardment missiles	72	Ę.
Rocket engines for morelland manager falls	. Tr	
Rocket engines for suriliary purposes [take-off boosters] Defensive missile-type fighters	80	
Missiles and rocket projectiles [V-1, V-2]	<b>8</b> 5 87	. 1   18
World War II as a turning point in recket development	87	e Ge
washing point in rectet development	102	Į.
Rocket Wespons of the Imperialist Armies		
Rocket weapons of the US armed forces	106	
Rocket vespons research and development in the URA	108	
Rocket weapons and guided missiles in the UE Army	110	
and furnish without the con OR VINA	125	
Jard 3/5	• •	1 11
	4 *	
ENGENERAL STREET		A. Co. C. Seller S. School Process S.
•••		一师学行动。

W/oLCR	
4/2400	
110	
740	
155	1
155	
150	
164	
165	. €
166	
•	
175	
175	-
181	
183	
197	
207	: 6
•	
213	
4	
	: 18
	11.
	142 148 155 155 155 159 164 165 166 167 175 175 181 183 197 207

Rocket Wespens	CZECH/2468
Rockets as veapons Soviet earth satellites The "Venguard" project Sputnik III  Appendixes [Tables] Tables of best known missiles of capitalist armed forces Tables of satisficial county materialists.	213 215 217 223
Tables of artificial earth satellites Chronological survey of important dates in recket history	227 258 262
Mibliography	267
Index	270
AVAILABLE: Library of Congress	
Card. 5/5	18/ <b>J.</b> 12-2-59



1110年17年17年17日至10年日日日日

Z/040/62/000/002/001/002 D006/D102

AUTHOR:

Klesl, Emil

TITLE:

The second goal of astronautics - the moon

PERIODICAL:

Letecky obzor, no. 2, 1962, 45-46

TEXT: This is the first part of an article dealing with the American and Soviet attempts to reach the moon. The successful launchings of the Soviet Lunik I, II, and III, as compared to the only successful US deep-space probe Pioneer IV, show the superiority of the Soviet rocket technology over that of the US. Also, the hard landing on the moon of Lunik II, and the photographing of the far side of the moon by Lunik III, indicate the high accuracy with which the Soviet lunar vehicles were put into their trajectories. The Hungarian expert Lovas of the Academy of Sciences in Budapest is the personality mentioned. There are 3 figures.

Card 1/1

Z/C40/62/000/003/001/003 D006/D102

AUTHOR:

Klesl, Emil

TITLE:

The second goal of astronauties - the moon

PERIODICAL:

Letecký obzor, no. 3, 1962, 77-79

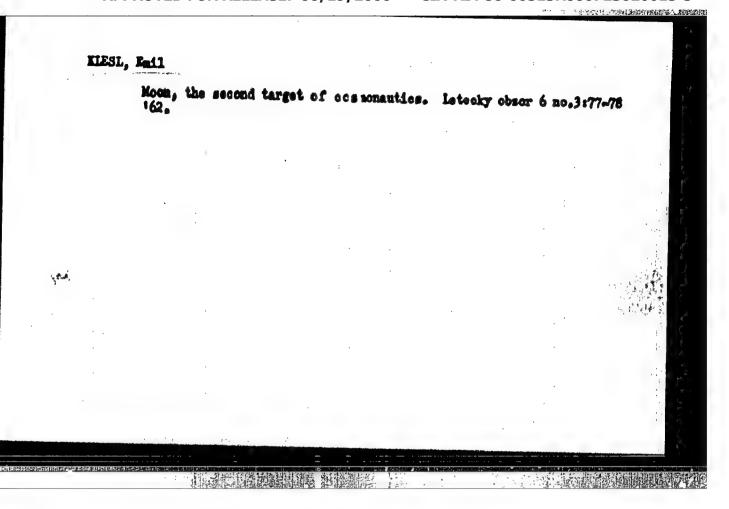
TEXT: This is the second and last part of an article dealing with the American and Soviet attempts to reach the moon. The American lunar landing program is stated and compared with actual Soviet accomplishments. Although Soviet space plans are not published, some Soviet authors assume that an "elastic" landing on the moon of a Soviet spacecraft can be expected sometime in 1962. The Soviet scientist N. Varvarov stated that for manned lunar flights it would be convenient, and possibly even inevitable, to use spacecraft with nuclear engines and/or orbiting refueling stations. Professor Sergeyev states that establishment of systems of communications, navigational and meteorological earth satellites can be expected in the near future. The Soviet expert G. Petrovich declared that it will be quite feasible to increase the current weight of Soviet spacecraft ten times within ten years. In the author's opinion, Soviet scientists are working on the solution of nuclear rocket engines, and also on the technical and scientific Card 1/2

Z/040/62/000/003/001/003 D006/D102

The second goal of astronautics ...

problems of placing into orbit a larger number of "cargo" rockets. He concludes that launching of lunar spacecraft with automatic robots, and possibly also with some living organisms, will precede the manned lunar landing. There is I figure.

Card 2/2



L 21,701-65 ARO/MEO-2/EMO(3)/EMT(d)/FBD/FSF(b)/FSS-2/EMO(r)/EMT(1)/FRO/FS(v)-3/FCS/ 2017/1-57500 (a) -2/500 (v)/FWP (c)/FWA (d)/EPR/EPC(t)/FWO (a)/FWO (h)/FWO (h)/FWA (h) " - Pn-1/Pn-1/Pe-SBOOK EXPLOITATION Pg-, Par. Pt-, Pv-, Fac-1/Pae-2 TT./WW/GW

Klesl,

Rockets, its threat and hope (Rakety hrozba a madeje) Prague, NV, 1964. 261 p. illus

Series Note: Fakta a svedectvi, sv. 25

TOPIC TAGS: rockets, rocket history, rocket technology

PURPOSE AND COVERAGE: This is a popular review of the development of rockets in the IRSR, United States, and Germany, the role of rockets in Would War II, and the juntuar competition in rocket development and space programs between the United States and the USSR.

TABLE OF CONTENTS [Abridged]:

Introduction -- 7

Early history -- 9

Card 1/5

L 24701-65
AMACH5108

You set fire ... -- 27

Father of modern rocket engineering -- 34

Soviet rocket engineering -- 43

Revealed Secret -- 49

The Soviet "Katusha" -- 51

Peenezinde -- 60

From Y2 Rocket to the Atlas -- 92

The Vanguard -- 100

a content turning point -- 107

a betober 1957 -- 120

L 21/701-65

ANAO45108

We don't follow the announced competition -- 127

Project Vanguard replaces Explorer -- 130

Satellites -- 134

"Luniks" beat Pioneers -- 136

Project Mercury and space ships -- 141

Who will be the third space power? -- 149

Great Britain will not break tradition -- 152

France follows its own tradition -- 156

West Germany looks for arguments -- 160

Solution in European cooperation -- 165

Cord 3/5

L 24701-65
AMMO45108

Modern rocket arms

Now arms of revolutionary quality -- 171

Rocket gap -- 176

New Successes in space -- 195

Mercury and group space flights -- 199

Space threat -- 221

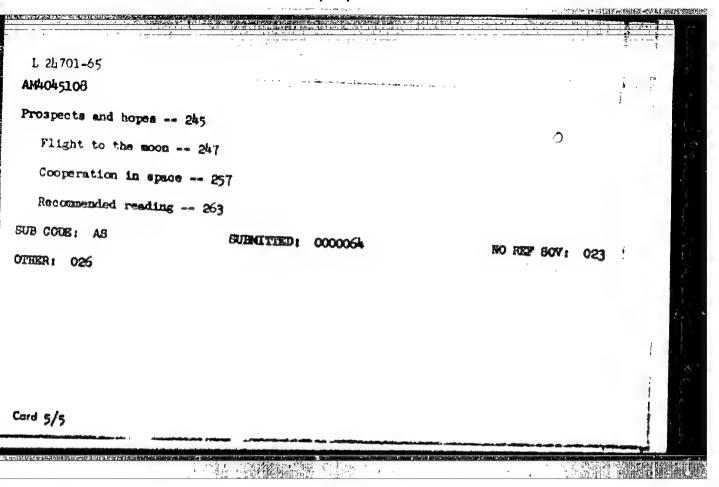
American generals on the importance of satellites -- 223

The first step to arms in space -- 227

Space—the future battle ground -- 234

Point of view of the Soviet Union -- 240

Cord 4/5



KILESMAN, V. O.

USSR/Chemistry - Xanthogenates

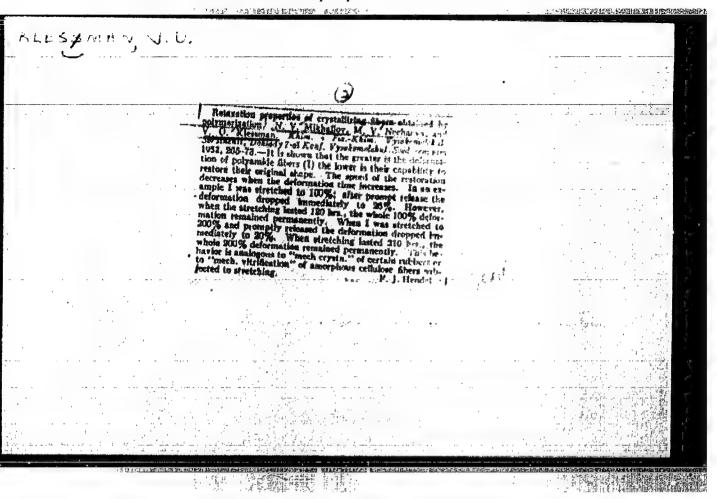
Jun 49

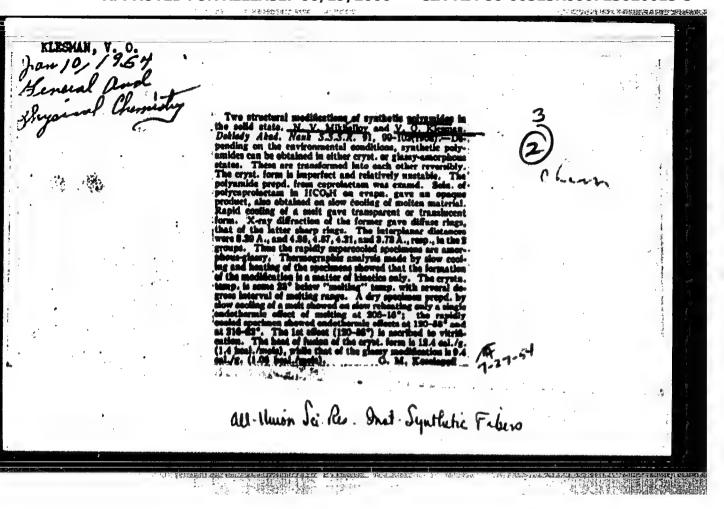
"The Chemistry of Viscose Xanthogenates: V. Thiosnhydrides of Xanthogenic Acids and Their Conversion, S. N. Danilov, N. M. Grad, V. O. Klesmen, Lab for Shem Processing of Cellulose, Leningrad Technol Inst imeni Lensovet, 8 1/4 pp

"Zhur Prik Khim" Vol XXII, No 6

Shows that chemical properties of monoxanthogensulfides or the thioanhydrides of xanthogenic acids are similar to those of xanthogendisulfides or dixanthogenides. In a water solution, an alkali on thioanhydrides of cellulosoxanthogenic acid yeilds cellulose xanthogenate with a carbon oxysulfide by-product, and using an aqueous ammonia solution, cellulose ammonium xanthogenanilide with a hydrogen sulfide by-product. Thioanhydrides cannot exist in viscose solutions with a general alkalinity of about 7%.

62/49T22





4.\*\*\* (19.21) 在19.10 (19.10) (19.10) (19.10) (19.10) (19.10) (19.10) (19.10) (19.10)

MICHATLOY, H.V.; KLESMAN, V.O.

Study of the structure of synthetic polysmides. Part 4. Radiographic data on structural transformations. Koll.shur. 16 no.3:191-195 \*54. (MLEA 7:7)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo volokna. (Textile fibers, Synthetic) (Radiography)

MICHAYLOV, N.V.; KLESMAN, V.O.

Investigation of the structure of synthetic polyanides. Part 5. Thermographic data on structural conversions in synthetic polyanides. Koll.shur. 16 no.4:272-279 Jl-Ag '54. (MERA 7:7)

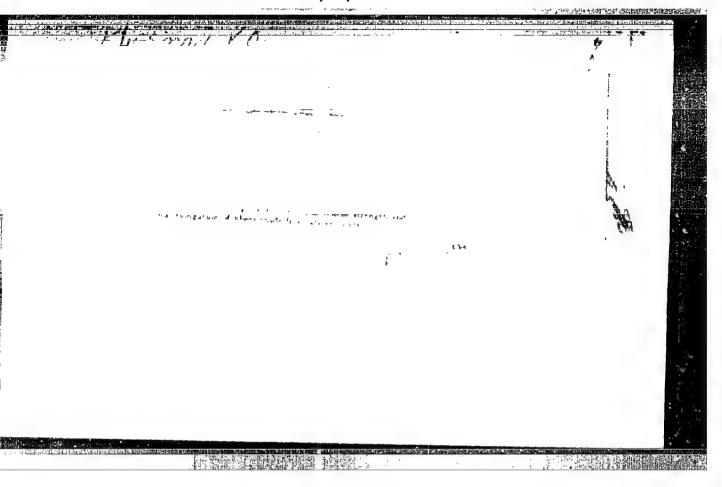
1. Vsesoyusnyy nauchno-iseledovatel'skiy institut iskusstvennege volokna.

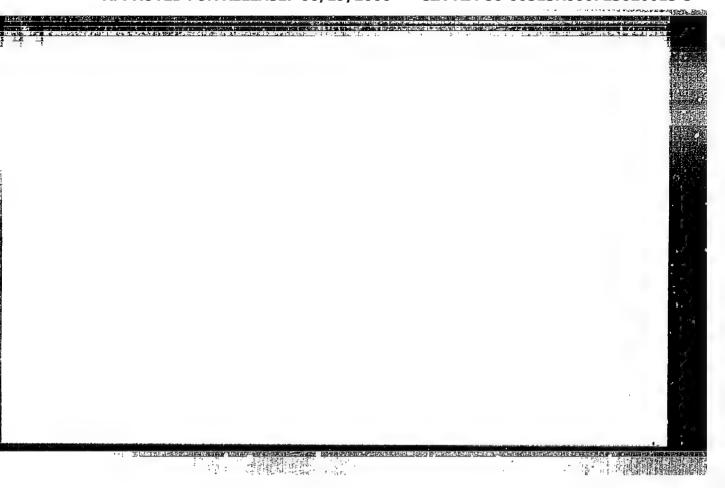
(Thermal analysis) (Textile fibers, Synthetic) (Amides)

MINHATLOV, N.V.; KLESHAN, V.O.

Phase conditions in polysorylonitrile fibers and structural changes during the crientation of these fibers. Soob.o manch. rab.chl.VEHO no.;3:43-45 '55 (MEMA 10:10)

(Aerylonitrile)





KLESMENT, I., LAGEDA, E.

Identification of phenols in gas chromatography fractions by catalytic dehydrogenation. Isv. AN Est. SSR. Ser.fis.-mat.i tekh.nauk 14 no.21273-280 '65. (MIRA 19:1)

1. Institut khimii AN Estonskoy SSR. Submitted April 30, 1964.

SALUSTE, S.; KLESMENT, I.; EYZEN, O. [Eisen, O. ]

Composition of phenols of tunnel kilns. Report No. 2. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 14 no. 4:596-604 (MIRA 19:2)

Catalytic properties of palladium and platinum under conditions of microreactor gas chromatographic analysis. Ibid.: 605-613.

1. Institut khimii AN Estonskoy SSR. Submitted March 31, 1965.

KLESKENE, I.; LAGEDA, E.; EYZEN, O. [Simon, O.]

Thin-layer chromatography of phenols. Inv. AN Est. SSR. Ser.fiz.-mat. 1 tekh.nauk 14 no.21266-272 '65. (MIRA 19:1)

1. Institut khimii AN Estonskoy SSR. Sabsitted August 15, 1964.

KLESMENT, I., kand. tekhn. nauk; LAGEDA, E.

Separation of phonols by distributive chromatography. Isv. AN Est. SSR. Ser. fix.-mat. 1 tekh.mauk no.41290-296 \*64.

1. Institut khimii AN Estonskoy SSR.

(MIRA 18:4)

KLESMENT, I., kand. tekhn. nauk

Study of the structure of ketones by hydrogenation and gas chromatography. Tav. AN Est. SSR. Ser. fiz.-mat. i tekh.nauk no.4:305-311 464. (HIRA 18:4)

1. Institut khimii AN Estonskoy SSR.

中。1917年1月1日,《新聞報報》中的日本

KLESMENT, I. [Kleesment, I.]; KHALLIK, E. [Hallik, E.]

Gomparative characteristics of the semicoking tars of oil shales. Khim. i tekh.gor.slan. i prod. ikh perer. no.12:169-180 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020013-3"

SALUSTE, S.1 KLESMENT, I.; BYZEN, O. [Bison, O.]

Composition of phenols of tunnel ovens. Isv. AW Est. SSR. Ser. file-mat. i tekh. neuk 14 no.1:140-146 465. (MIRA 18:11)

1. Institut khimii AN Estonskoy SSR.

1 · 医性的 \* 1 · 到 医性性上颌后性 2007 / 百

# KIESMENT, I., BYZEN, O. [Bisen, O.]

Study of the structure of phenois by their hydroxylation to aromatic hydroxarbone. Isv. AN Est. SSR. Ser. fiz.-met. i takh. mauk 14 no.1:147-151 465. (MIRA 18:11)

1. Institut khimii AN Estonskoy SSR.

KLESMENT, I. R., Cand of Tech Sci — (diss) "Extraction of Aromatic Hydrocarbons from Light Fractions of Shale Tars," Tallin, 1959, 26 pp (Institute of hemistry, Acad of Sci Estonian SSR) (KL, 5-60, 126)

5(3)

507/23-59-2-4/8

AUTHOR:

Klesment, I. R

TITLE:

Refining Aromatic Shale Benzine by Sulfuric Acid

Over an Alumosilicate Catalyzer

PERIODICAL:

Izvestiya Akademii Estonskoy SSR, Seriya tekhnicheskikh i fiziko-matematicheskikh nauk, 1959, Nr 2, pp 92-102 (USSR)

ABSTRACT:

Aromatic Shale Benzine contains, apart from aromatic hydrocarbons, also paraffin, olefins and sulphur compounds. When separated, sulphur compounds are polymerized with olefins at a maximum of 20°C. There are 11 tables, 4 graphs and 11 references, 10 of which are Soviet and 1 German.

Card 1/1